

## First Year

### Compulsory Courses

INFO0085-1	<i>Compilers</i> - Pierre GEURTS - [75h Proj.]	Q2	25	-	[+]	5
INFO0063-1	<i>Object-oriented software engineering</i> (english language) - Bernard BOIGELOT - [30h Proj.]	Q1	30	24	[+]	5
INFO0016-1	<i>Introduction to the theory of computation</i> (english language) - Pierre WOLPER	Q1	30	30	-	5
MATH0462-1	<i>Discrete optimization</i> (english language) - Quentin LOUVEAUX - [25h Proj.]	Q1	30	20	[+]	5
INFO0051-1	<i>Logic</i> (english language) - Pascal GRIBOMONT - [10h Proj.]	Q1	30	25	[+]	5
ELEN0060-2	<i>Information and coding theory</i> (english language) - Louis WEHENKEL - [30h Proj.]	Q2	30	15	[+]	5
GEST3162-1	<i>Introduction to company management</i> (english language) - Michael GHILISSEN, François PICHAULT, Thierry PIRONET, Didier VAN CAILLIE	Q2	25	25	-	5
PROJ0010-1	<i>Integrated software project, including fundamentals in project management</i> (english language) - JeanLouis BINOT, Bernard BOIGELOT, Benoît DONNET, Guy LEDUC, Laurent MATHY - [290h Proj.]	TA	10	-	[+]	10

### Optional courses

Students will choose one of the options below and will carry it on during the second year.

#### "Computer systems and networks" option

INFO0031-1	<i>Computer network architectures and multimedia</i> (english language) - Guy LEDUC - [6h Labo., 25h Proj.]	Q1	35	-	[+]	5
INFO0045-3	<i>Introduction to computer security</i> (english language) - Benoît DONNET - [8h Labo., 30h Proj.]	Q2	30	10	[+]	5

Students will choose 5 credits in the following list :

INFO0064-3	<i>Embedded systems</i> (english language) - Bernard BOIGELOT - [60h Proj.]	Q1	30	30	[+]	5
INFO0941-1	<i>Network measurement and monitoring</i> (english language) - Benoît DONNET - [60h Proj.]	Q2	20	-	[+]	5
INFO2051-1	<i>Object-oriented programming on mobile devices</i> (english language) - Laurent MATHY - [90h Proj.]	Q2	15	10	[+]	5
INFO0056-1	<i>Managing and securing computer networks</i> (english language) - Guy LEDUC - [12h Labo., 55h Proj.]	Q2	30	-	[+]	5
ELEN0062-1	<i>Applied Inductive Learning</i> (english language) - Pierre GEURTS, Louis WEHENKEL - [40h Proj.]	Q1	30	5	[+]	5

#### "Intelligent Systems" option

ELEN0062-1	<i>Applied Inductive Learning</i> (english language) - Pierre GEURTS, Louis WEHENKEL - [40h Proj.]	Q1	30	5	[+]	5
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Students will choose 10 credits in the following list :

INFO0064-3	<i>Embedded systems</i> (english language) - Bernard BOIGELOT - [60h Proj.]	Q1	30	30	[+]	5
ELEN0016-2	<i>Digital image and video processing</i> (english language) - Marc VAN DROOGENBROECK - [20h Proj.]	Q1	30	10	[+]	5
INFO0948-2	<i>Introduction to intelligent robotics</i> (english language) - Renaud DETRY - [80h Proj.]	Q2	30	4	[+]	5
INFO0049-1	<i>Knowledge representation</i> (english language) - Pascal GRIBOMONT - [50h Proj.]	Q2	30	25	[+]	5
INFO2049-1	<i>Web and Text Analytics</i> (english language) - Ashwin ITTOO - [90h Proj.]	Q2	15	5	[+]	5
INFO2046-2	<i>Computational geometry</i> (english language) - Eric BÉCHET - [90h Proj.]	TA	30	-	[+]	5
MECA0031-2	<i>Kinematics and dynamics of mechanisms</i> (english language) - Olivier BRULS	Q2	30	30	-	5

### Bachelors who have not chosen computer science as major option :

\* must take all the so-called "prerequisite" courses hereafter, if they were not taken during 1st cycle. These courses

must be taken during 1st year of the masters and some 1st-year compulsory courses must be rolled over the 2nd year

\* must subsequently reduce the number of courses they choose to take in the 2nd year of the masters. If all the "prerequisite" courses must be taken, it will be impossible for them to choose optional courses

#### Prerequisite courses

ELEN0040-1	<i>Digital Electronics</i> - Michael KRAFT - Suppl : Patricia ROUSSEAUX	Q2	30	30	-	5
INFO0010-4	<i>Introduction to computer networking</i> (english language) - Guy LEDUC - [40h Proj.]	Q2	35	15	[+]	5
INFO0012-2	<i>Computation structures</i> (english language) - Pierre WOLPER - [40h Proj.]	Q1	30	25	[+]	5
INFO0054-1	<i>Functional programming</i> - Pascal GRIBOMONT - [15h Proj.]	Q2	30	25	[+]	5
INFO0062-1	<i>Object-Oriented Programming</i> - Bernard BOIGELOT - [20h Proj.]	Q2	30	24	[+]	5
INFO0004-2	<i>Object-oriented programming projects</i> (english language) - Laurent MATHY - [90h Proj.]	Q1	20	-	[+]	5
INFO0902-1	<i>Data structures and algorithms</i> - Pierre GEURTS - [40h Proj.]	Q2	30	20	[+]	5
INFO0940-1	<i>Operating systems</i> (english language) - Laurent MATHY - [80h Proj.]	Q2	30	6	[+]	5

#### Second Year

##### Compulsory Courses

ATFE0015-1	<i>Master thesis</i> (english language) - COLLÉGIALITÉ - [750h Proj.]	TA	-	-	[+]	25
[...]	With the agreement of the jury, students may choose 5 credits in any course programme of the University.					

Notice : The specialisation in management will be taught for the last time in 2014-2015.

##### Compulsory courses

GEST3001-1	<i>People management and organisation</i> - Jocelyne ROBERT	Q1	24	24	-	4
GEST3002-1	<i>Human Resources</i> - Jocelyne ROBERT	Q1	24	-	-	2
GEST3003-1	<i>Competitive strategy in the marketplace</i> (english language) - Michael GHILISSEN	Q1	16	16	-	3
GEST3004-1	<i>Marketing (operations and management)</i> (english language) - Michael GHILISSEN	Q1	16	16	-	3
GEST3005-2	<i>Accountancy and Finance</i> - Jacques BERWART		24	24	-	4
GEST3006-1	<i>Operations and supply chain management I</i> (english language) - Yasemin ARDA	Q1	16	16	-	3
GSTG3001-1	<i>Business plan</i> - COLLÉGIALITÉ		-	30	-	4
GSTG3002-1	<i>Functional analysis of a company</i> - COLLÉGIALITÉ - [30h Internship]		-	-	[+]	4

##### Optional courses

Choose one of the following courses :

GEST3010-1	<i>Operations and supply chain management II</i> - Sabine LIMBOURG	Q1	16	16	-	3
GEST3011-2	<i>ICT for Business</i> - Alain DUBOIS	Q1	16	16	-	3
GEST3012-1	<i>Financial and actuarial modelling</i> - Louis ESCH	Q1	16	16	-	3